

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/828,623 B  
Source: 1 FWO  
Date Processed by STIC: 2/2/06

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 02/03/2006

PATENT APPLICATION: US/10/828,623B

TIME: 10:52:45

Input Set : N:\Crf4\02022006\J828623C.raw

Output Set: N:\CRF4\02032006\J828623B.raw

1 <110> APPLICANT: Carr, Daniel  
 2 Lipkowski, Andrzej  
 3 Kream, Richard  
 4 Misicka-Kesik, Aleksandra  
 5 <120> TITLE OF INVENTION: Novel Chimeric Analgesic Peptides  
 6 <130> FILE REFERENCE: 2004117-0008  
 C--> 7 <140> CURRENT APPLICATION NUMBER: US/10/828,623B  
 8 <141> CURRENT FILING DATE: 2004-04-21  
 9 <160> NUMBER OF SEQ ID NOS: 43  
 10 <170> SOFTWARE: PatentIn version 3.2  
 12 <210> SEQ ID NO: 1  
 13 <211> LENGTH: 15  
 14 <212> TYPE: PRT  
 15 <213> ORGANISM: Artificial  
 16 <220> FEATURE:  
 17 <223> OTHER INFORMATION: Human  
 18 <400> SEQUENCE: 1  
 19 Thr Gly Gly Phe Met Thr Ser Glu Ser Gln Thr Pro Leu Val Thr  
 20 1 5 10 15  
 22 <210> SEQ ID NO: 2  
 23 <211> LENGTH: 4  
 24 <212> TYPE: PRT  
 25 <213> ORGANISM: Artificial  
 26 <220> FEATURE:  
 27 <223> OTHER INFORMATION: Human  
 28 <400> SEQUENCE: 2  
 29 Tyr Pro Trp Phe  
 30 1  
 32 <210> SEQ ID NO: 3  
 33 <211> LENGTH: 4  
 34 <212> TYPE: PRT  
 35 <213> ORGANISM: Artificial  
 36 <220> FEATURE:  
 37 <223> OTHER INFORMATION: Human  
 38 <400> SEQUENCE: 3  
 39 Tyr Pro Phe Phe  
 40 1  
 42 <210> SEQ ID NO: 4  
 43 <211> LENGTH: 7  
 44 <212> TYPE: PRT  
 45 <213> ORGANISM: Artificial  
 46 <220> FEATURE:  
 47 <223> OTHER INFORMATION: Human

## RAW SEQUENCE LISTING

DATE: 02/03/2006

PATENT APPLICATION: US/10/828,623B

TIME: 10:52:45

Input Set : N:\Crf4\02022006\J828623C.raw

Output Set: N:\CRF4\02032006\J828623B.raw

48 <400> SEQUENCE: 4  
49 Tyr Ala Phe Gly Tyr Pro Ser  
50 1 5  
52 <210> SEQ ID NO: 5  
53 <211> LENGTH: 7  
54 <212> TYPE: PRT  
55 <213> ORGANISM: Artificial  
56 <220> FEATURE:  
57 <223> OTHER INFORMATION: Bovine  
58 <400> SEQUENCE: 5  
59 Tyr Pro Phe Pro Gly Pro Ile  
60 1 5  
62 <210> SEQ ID NO: 6  
63 <211> LENGTH: 7  
64 <212> TYPE: PRT  
65 <213> ORGANISM: Artificial  
66 <220> FEATURE:  
67 <223> OTHER INFORMATION: Human  
68 <400> SEQUENCE: 6  
69 Tyr Pro Phe Val Glu Pro Ile  
70 1 5  
72 <210> SEQ ID NO: 7  
73 <211> LENGTH: 4  
74 <212> TYPE: PRT  
75 <213> ORGANISM: Artificial  
76 <220> FEATURE:  
77 <223> OTHER INFORMATION: Human  
78 <400> SEQUENCE: 7  
79 Tyr Pro Phe Pro  
80 1  
82 <210> SEQ ID NO: 8  
83 <211> LENGTH: 5  
84 <212> TYPE: PRT  
85 <213> ORGANISM: Artificial  
86 <220> FEATURE:  
87 <223> OTHER INFORMATION: Human  
88 <400> SEQUENCE: 8  
89 Tyr Gly Gly Phe Leu  
90 1 5  
92 <210> SEQ ID NO: 9  
93 <211> LENGTH: 5  
94 <212> TYPE: PRT  
95 <213> ORGANISM: Artificial  
96 <220> FEATURE:  
97 <223> OTHER INFORMATION: Human  
98 <400> SEQUENCE: 9  
99 Tyr Gly Gly Phe Met  
100 1 5  
102 <210> SEQ ID NO: 10

## RAW SEQUENCE LISTING

DATE: 02/03/2006

PATENT APPLICATION: US/10/828,623B

TIME: 10:52:45

Input Set : N:\Crf4\02022006\J828623C.raw

Output Set: N:\CRF4\02032006\J828623B.raw

```

103 <211> LENGTH: 4
104 <212> TYPE: PRT
105 <213> ORGANISM: Artificial
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Human
108 <400> SEQUENCE: 10
109     Tyr Arg Phe Lys
110     1
112 <210> SEQ ID NO: 11
113 <211> LENGTH: 4
114 <212> TYPE: PRT
115 <213> ORGANISM: Artificial
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Human
118 <400> SEQUENCE: 11
119     Tyr Pro Phe Pro
120     1
122 <210> SEQ ID NO: 12
123 <211> LENGTH: 5
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Human
128 <400> SEQUENCE: 12
129     Tyr Ala Gly Phe Leu
130     1             5
132 <210> SEQ ID NO: 13
133 <211> LENGTH: 6
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial
136 <220> FEATURE:
137 <223> OTHER INFORMATION: Human
138 <400> SEQUENCE: 13
139     Tyr Ser Gly Phe Leu Thr
140     1             5
142 <210> SEQ ID NO: 14
143 <211> LENGTH: 5
144 <212> TYPE: PRT
145 <213> ORGANISM: Artificial
146 <220> FEATURE:
147 <223> OTHER INFORMATION: Human
148 <220> FEATURE:
149 <221> NAME/KEY: misc_feature
150 <222> LOCATION: (2)..(2)
151 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: (5)..(5)
155 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

```

## RAW SEQUENCE LISTING

DATE: 02/03/2006

PATENT APPLICATION: US/10/828,623B

TIME: 10:52:45

Input Set : N:\Crf4\02022006\J828623C.raw

Output Set: N:\CRF4\02032006\J828623B.raw

```

156 <400> SEQUENCE: 14
W--> 157      Tyr Xaa Gly Phe Xaa
158          1             5
160 <210> SEQ ID NO: 15
161 <211> LENGTH: 7
162 <212> TYPE: PRT
163 <213> ORGANISM: Artificial
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Human
166 <400> SEQUENCE: 15
167      Tyr Ala Phe Asp Val Val Gly
168          1             5
170 <210> SEQ ID NO: 16
171 <211> LENGTH: 7
172 <212> TYPE: PRT
173 <213> ORGANISM: Artificial
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Human
176 <400> SEQUENCE: 16
177      Tyr Ala Phe Glu Val Val Gly
178          1             5
180 <210> SEQ ID NO: 17
181 <211> LENGTH: 7
182 <212> TYPE: PRT
183 <213> ORGANISM: Artificial
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Human
186 <400> SEQUENCE: 17
187      Tyr Met Phe His Leu Met Asp
188          1             5
190 <210> SEQ ID NO: 18
191 <211> LENGTH: 16
192 <212> TYPE: PRT
193 <213> ORGANISM: Artificial
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Human
196 <400> SEQUENCE: 18
197      Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn
198          1             5             10             15
200 <210> SEQ ID NO: 19
201 <211> LENGTH: 8
202 <212> TYPE: PRT
203 <213> ORGANISM: Artificial
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Human
206 <400> SEQUENCE: 19
207      Tyr Gly Gly Phe Leu Arg Arg Ile
208          1             5
210 <210> SEQ ID NO: 20

```

## RAW SEQUENCE LISTING

DATE: 02/03/2006

PATENT APPLICATION: US/10/828,623B

TIME: 10:52:45

Input Set : N:\Crf4\02022006\J828623C.raw

Output Set: N:\CRF4\02032006\J828623B.raw

```

211 <211> LENGTH: 13
212 <212> TYPE: PRT
213 <213> ORGANISM: Artificial
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Human
216 <400> SEQUENCE: 20
217     Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys
218         1             5             10
220 <210> SEQ ID NO: 21
221 <211> LENGTH: 11
222 <212> TYPE: PRT
223 <213> ORGANISM: Artificial
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Human
226 <400> SEQUENCE: 21
227     Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met
228         1             5             10
230 <210> SEQ ID NO: 22
231 <211> LENGTH: 12
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Human
236 <400> SEQUENCE: 22
237     Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly
238         1             5             10
240 <210> SEQ ID NO: 23
241 <211> LENGTH: 13
242 <212> TYPE: PRT
243 <213> ORGANISM: Artificial
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Human
246 <400> SEQUENCE: 23
247     Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys
248         1             5             10
250 <210> SEQ ID NO: 24
251 <211> LENGTH: 14
252 <212> TYPE: PRT
253 <213> ORGANISM: Artificial
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Human
256 <400> SEQUENCE: 24
257     Ala Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys Arg
258         1             5             10
260 <210> SEQ ID NO: 25
261 <211> LENGTH: 12
262 <212> TYPE: PRT
263 <213> ORGANISM: Artificial
264 <220> FEATURE:

```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 02/03/2006  
PATENT APPLICATION:    US/10/828,623B      TIME: 10:52:46

Input Set : N:\Crf4\02022006\J828623C.raw  
Output Set: N:\CRF4\02032006\J828623B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:14; Xaa Pos. 2,5

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27  
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43

**VERIFICATION SUMMARY**

DATE: 02/03/2006

PATENT APPLICATION: US/10/828,623B

TIME: 10:52:46

Input Set : N:\Crf4\02022006\J828623C.raw

Output Set: N:\CRF4\02032006\J828623B.raw

L:7 M:270 C: Current Application Number differs, Wrong Format

L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0